

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME MALLINCKRODT, INC.		DPM 950-31	EMERGENCY TELEPHONE NO. 606/987-7000
ADDRESS (Number, Street, City, State, and ZIP Code) P.O. Box M, Paris, Kentucky 40361			
CHEMICAL NAME AND SYNONYMS Silver Cyanide		TRADE NAME AND SYNONYMS	
CHEMICAL FAMILY Inorganic salt POISONOUS!		FORMULA AgCN	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		%	TLV (Units)	ALLOYS AND METALLIC COATINGS		%	TLV (Units)
PIGMENTS				BASE METAL			
CATALYST				ALLOYS			
VEHICLE				METALLIC COATINGS			
SOLVENTS				FILLER METAL PLUS COATING OR CORE FLUX			
ADDITIVES				OTHERS			
OTHERS							
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES						%	TLV (Units)

ORANGE COUNTY CHEMICAL CO.
Industrial Chemicals
 1230 E. ST. GERTRUDE
 SANTA ANA, CALIFORNIA 92707

SECTION III - PHYSICAL DATA

PHYSICAL DATA			
BOILING POINT (°C)	M.P. Decomposes	320° C	SPECIFIC GRAVITY (H ₂ O=1)
			3.95
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____ =1)	NA
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR White to yellow-white powder			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)		None*	FLAMMABLE LIMITS		LeI	UeI
EXTINGUISHING MEDIA		Water, CO ₂ , Foam, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES Wear a self-contained breathing apparatus. Approach fire from upwind.						
UNUSUAL FIRE AND EXPLOSION HAZARDS On contact with acid, or acid fumes it may produce toxic and flammable fumes of HCN. EXTREMELY TOXIC!						

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

None indicated. (10 ppm for Hydrogen Cyanide.) LD₅₀ Oral (RAT) = 123 mg/Kg.

EFFECTS OF OVEREXPOSURE

Toxicity high via oral route. Silver salts may produce argyria (greyish pigmentation on skin). Positioning can occur by inhalation and by skin absorption.

EMERGENCY AND FIRST AID PROCEDURES

Skin: Wash with water for 15 minutes.

Eyes: Immediately wash with water for 15 minutes; consult physician.

Ingestion: If patient is conscious, give large amounts of water and induce vomiting.

Treat for cyanide poisoning with use of Amyl Nitrite Pearls. Consult physician immediately.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	x	except in the presence of acids.
INCOMPATIBILITY (Materials to avoid)			
Violent reaction with F ₂ , Mg			
HAZARDOUS DECOMPOSITION PRODUCTS			
When heated to decomposition or in contact with acids, emits toxic fumes of HCN			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	x	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
See Disposal Methods below.

WASTE DISPOSAL METHOD

- 1.) Send to a licensed silver recovery firm.
- 2.) Send to an approved hazardous materials landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Dust mask

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General) x	OTHER
PROTECTIVE GLOVES	Rubber	EYE PROTECTION
		Goggles
OTHER PROTECTIVE EQUIPMENT		
Have self-contained breathing apparatus available.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, dry place away from acids. Keep tightly closed and protect from light (darkens on exposure).

OTHER PRECAUTIONS

Inside storage should be in a cool, well-ventilated, non-combustible location, away from all possible sources of ignition.